BOGDANOV, O.S., doktor tekhnicheskikh nauk, professor, redaktor; BRAND, V.Yu., kandidat tekhnicheskikh nauk, redaktor; DERKACH, V.G., kandidat tekhnicheskikh nauk, redaktor; DOLIVO-DOBROVOL'SKIY, V.V., doktor tekhnicheskikh nauk, redaktor; ZAKHVATKIN, V.K., redaktor; KACHAN, I.N., kandidat tekhnicheskikh nauk, redaktor; OLEVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; LOKONOV, M.F., kandidat tekhnicheskikh nauk, redaktor; PARFENOV, A.M., kandidat tekhnicheskikh nauk, redaktor; POLIVANOV, K.Yu., redaktor; FINKEL'SHTEYN, G.I., kandidat tekhnicheskikh nauk, redaktor; FOMIN, Ya.I., kandidat tekhnicheskikh nauk, redaktor; SHINYAKOV, M.I., redaktor; YUDENICH, G.I., doktor tekhnicheskikh nauk, redaktor; BYKOV, G.P., redaktor; YEZDOKOVA, M.L., redaktor izdatel'stva; EVENSON, I.M., tekhnicheskiy redaktor

[Proceedings of the Third Scientific Session of the Institute of Mechanical Processing of Economic Minerals] Trudy III nauchnotekhnicheskoi sessii instituta Mekhanobr. Moskva. Gos.nauchnotekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955.
758 p. (MLRA 10:8)

1. Leningrad. Mauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh
(Ore dressing) (Plotation)

SOV / 137-58-7-14016

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 4 (USSR)

AUTHORS: Kazennov, M. N., Ozolin, L. T., Fomin, Ya. I.

TITLE: Beneficiation of the Hematite-magnetite Ores of the Olenegorsk

Deposit (Obogashcheniye gematito-magnetitovykh rud Olenegor-

skogo mestorozhdeniya)

PERIODICAL: [Tr.] Vses. n.-i. i proyektn. in-ta mekhan. obrabotki

poleznykh iskopayemykh, 1957, Nr 102, pp 11-42

ABSTRACT: The dressability of the ore was tested by a variety of pro-

cedures: wet and dry magnetic separation on separators having a weak magnetic field to separate the magnetite concentrate, dry separation on strong-field separators and gravitational processes to separate the hematite concentrate, and the magnetic roasting process to separate magnetite and hematite concentrates. The procedure developed, including magnetic separation and gravitation, permits the production of a concentrate containing 60% Fe, with recovery of 90% of the Fe. A flotation method has been successfully developed at the Mekhanobr

institute to dress finely-disseminated hematite ores. The

Card 1/2 launching of the first production line of the mill showed that

SOV / 137-58-7-14016

Beneficiation of the Hematite-magnetite Ores of the Olenegorsk Deposit

uninterrupted operation and attainment of the planned qualitative and quantitative indices requires a change in the process procedure. The changes are the following: employment of 2-stage comminution, introduction of secondary separation by magnetic means, secondary crushing of the middlings with the initial ore, elimination of the two-cell pulsator jigs provided to precipitate the middlings after fine grinding, and replacement of the filters provided in the design by spiral classifiers. Tests were made of "plan-filters" [interpreted to mean an Oliver-type plane-surface rotating vacuum filter. Transl. Ed. Note] which dewatered the concentrate to 9% moisture content. It is recommended that secondary separation of the concentrate and flotation be introduced.

1. Iron ores--Processing 2. Iron ores--Flotation

A. Sh.

Card 2/2

507/127-59-11-8/16 Fomin, Ya.I., Lakota, B.M., Grazhdantsev, I.I. and Kurova, AUTHORS: M.D., Mining Engineers TITLE: The Experiment of Concentrating Manganese Ores in Heavy Suspensions and by Flotation Under Industrial Conditions (Opyt obogashcheniya margantsevykh rud v tyaz....ykh suspenziyakh i flotatsiyey v promyshlennykh usloviyakh) PERIODICAL: Cornyy zhurnal, 1958. Nr 11. pp 32 - 44 ABSTRACT: The authors give a detailed report on experiments made in

a concentration mill of the Mine Administration imeni Voroshilov of the Nikopol'-Marganets Trust, where manganese ores and manganese slime were concentrated on a special experimental assembly. The manganese ore was concentrated in heavy suspension and the ground ferrosilicon was used as weighing compound (fig. 2). This compound was in later experiments replaced by cinder, but the results of concentration were almost identical in both cases (tables 1-11). In the experiment with the flotation of manganese slime, a mixture of sodium carbonate (2.5-3 kg/ton), sulfate soap

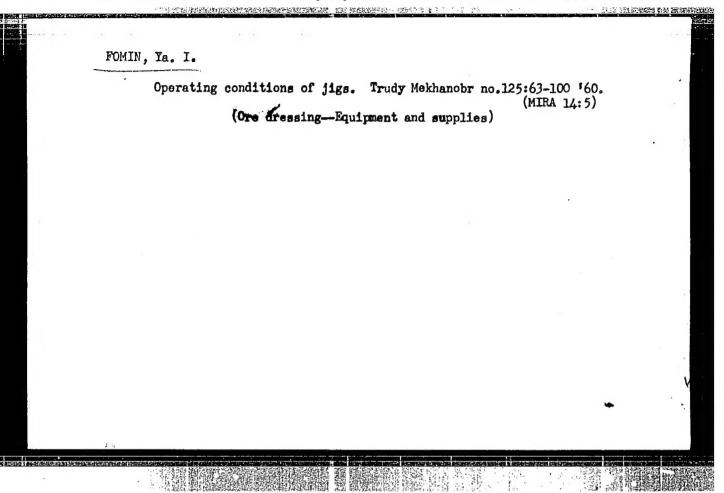
Card 1/2 (1.3-1.5 kg/ton) and oxidized white spirit (0.5 kg/ton was

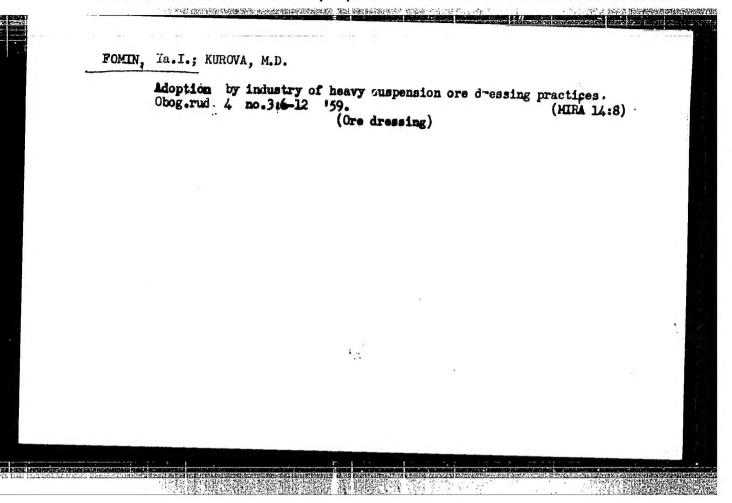
The Experiment of Concentrating Manganese Ores in Heavy Suspensions and by Flotation Under Industrial Conditions

used as a flotation reagent. The scheme of concentration process is given in fig. 4, and the results of flotation - in tables 11-16. The results of both experiments showed the necessity of further improvement and simplification of concentration and flotation processes, though the results already obtained are satisfactory. In connection with these experiments the following scientists are cited by the authors: Z.S. Bogdanova, O.P. Bondarenko; and D.I. Frantsuzov. There are 16 tables, 5 schemes and 2 Soviet references.

Card 2/2

1. Manganese ores--Processing

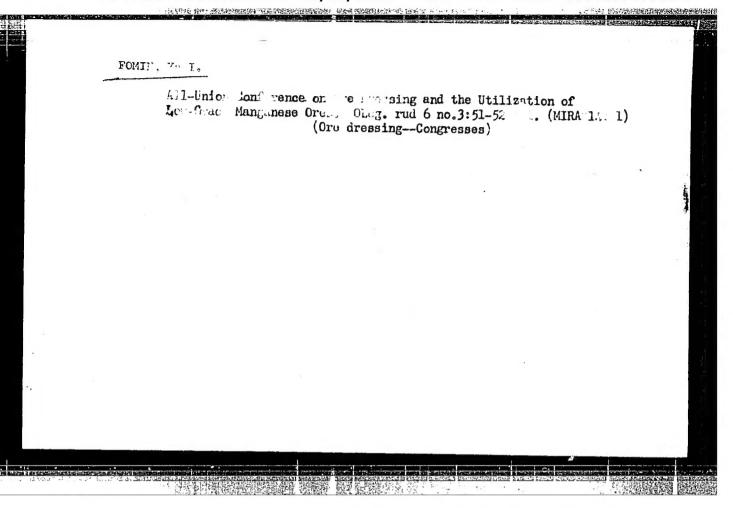


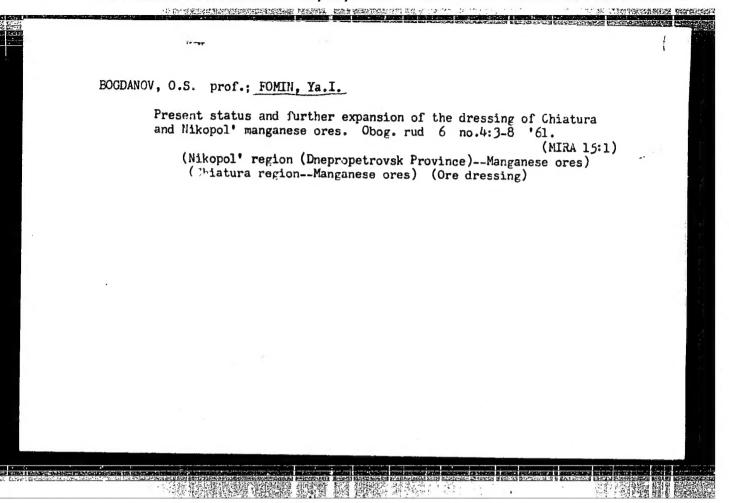


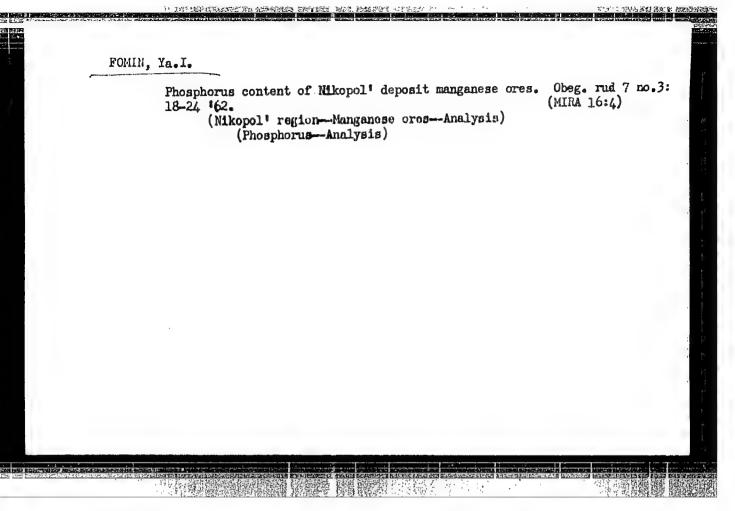
BOGDANOV, O.S., doktor tekhn. nauk, prof., otv. red.; ERAND, V.Yu., kand. tekhn. nauk, red.; DERKACH, V.G., doktor tekhn. nauk, red.; ZAKHVATKIN, V.K., red.; OLEVSKIY, V.A., kand. tekhn. nauk, red.; LOKONOV, M.F., kand. tekhn. nauk, red.; PODNEK, A.K., kand. tekhn. nauk, red.; TUSEYEV, A.A., red.; FINKEL'SHTEYN, G.A., kand. tekhn. nauk, red.; FOMIN, Ya.I., kand. tekhn. nauk, red.; CHERNOBROV, S.M., kand. tekhn. nauk, red.; KUTUZOVA, L.M., red.

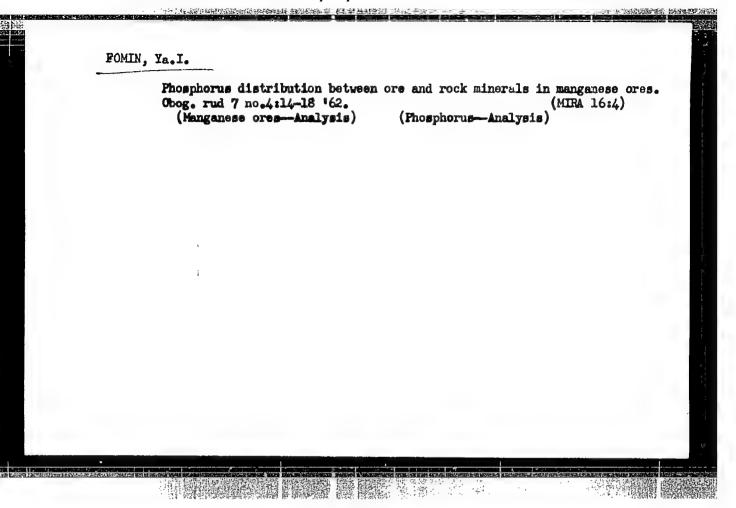
[Transactions of the Fourth Scientific Technological Session of the Scientific Research Institute for Mechanical Concentration of Minerals] Trudy IV nauchno-tekhnicheskoi sessii instituta MEKHANOBR. Leningrad, 1961. 665 p. (MIRA 17:5)

1. Leningrad. Nauchno-issledovatel skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh.







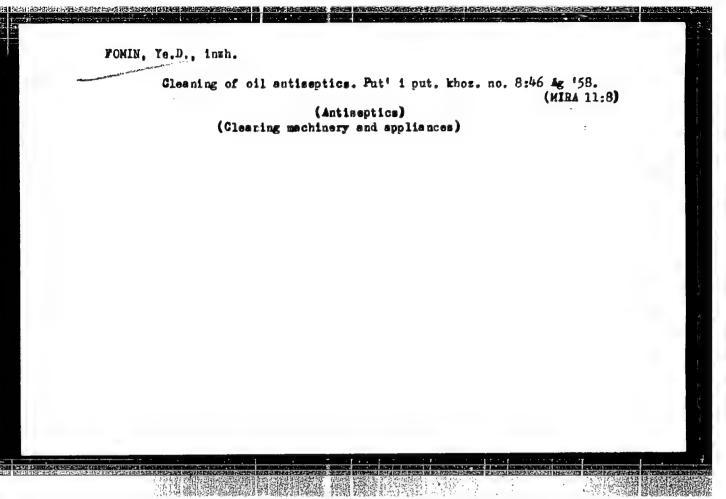


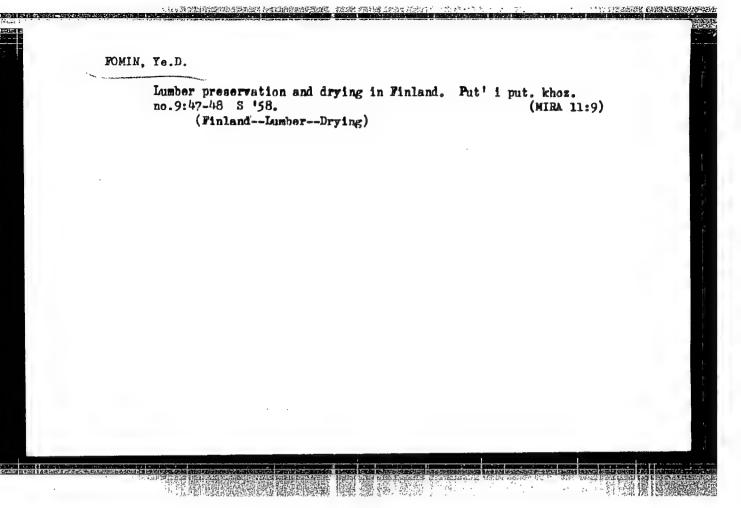
FOMIN, Ya.I., kand. tekhn. nauk

Technology of dressing Kerch tobacco-colored ores. Gor.

zhur. no.10:76-77 0 '63. (MIRA 16:11)

1. Vsescyuznyy nauchno-issledovatel'skiy i proyektnyy
institut mekhanicheskoy obrabotki poleznykh iskopayemykh,
Leningrad.



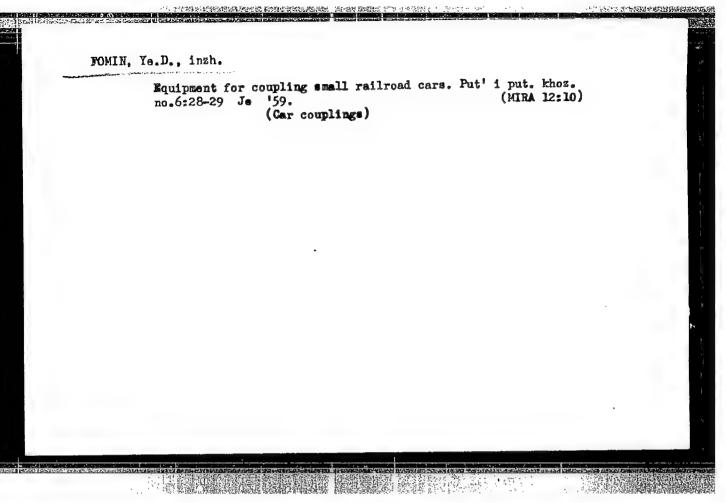


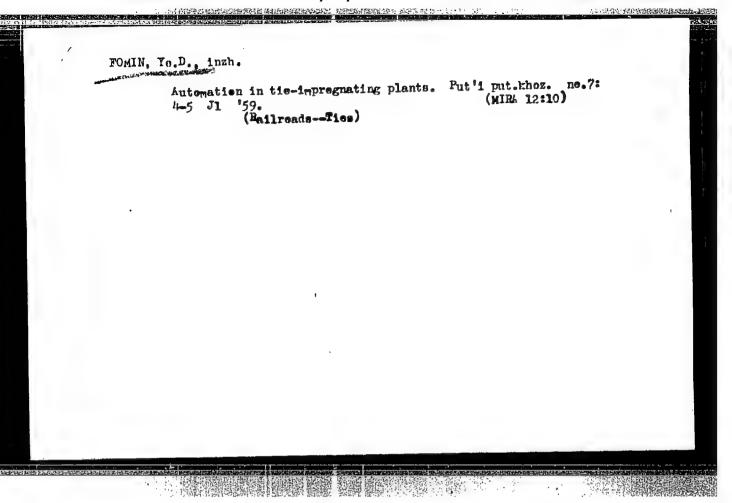
SHIKALOV, I.G., inzh.; FOMIN, Ye.D., inzh.

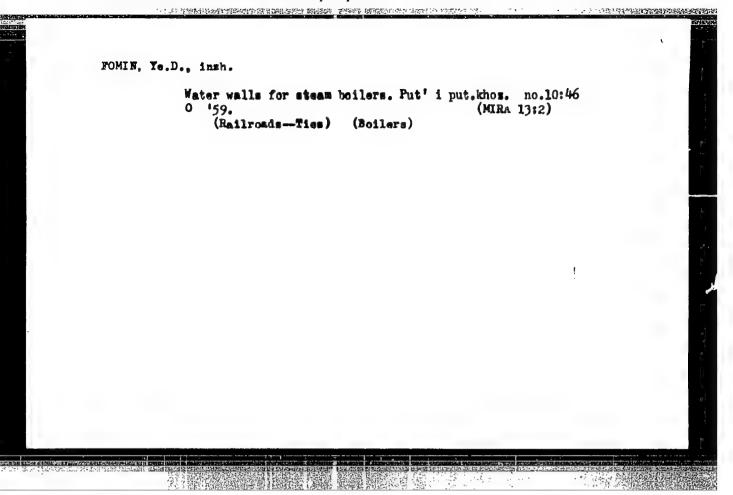
Two hundred and twenty-five million ties. Puti i put. khoz.
no.4:15-16 Ap '59.

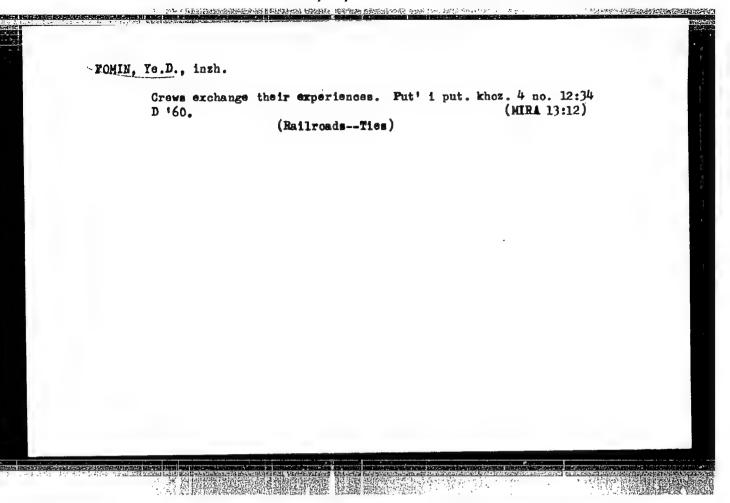
(Railroads--Ties)

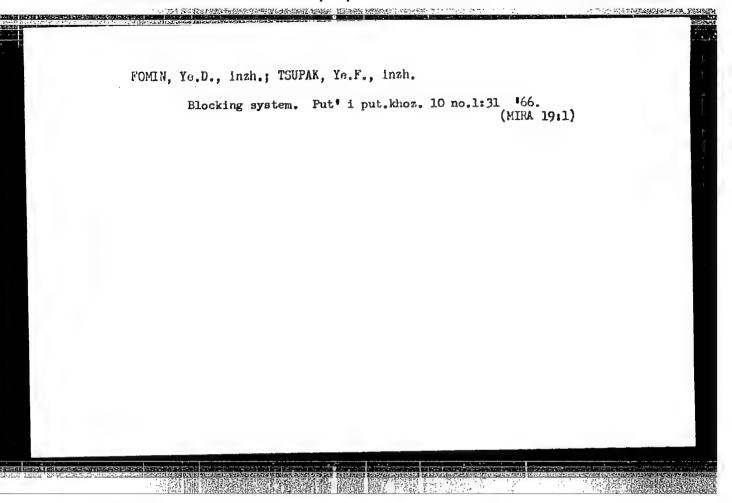
(Railroads--Ties)

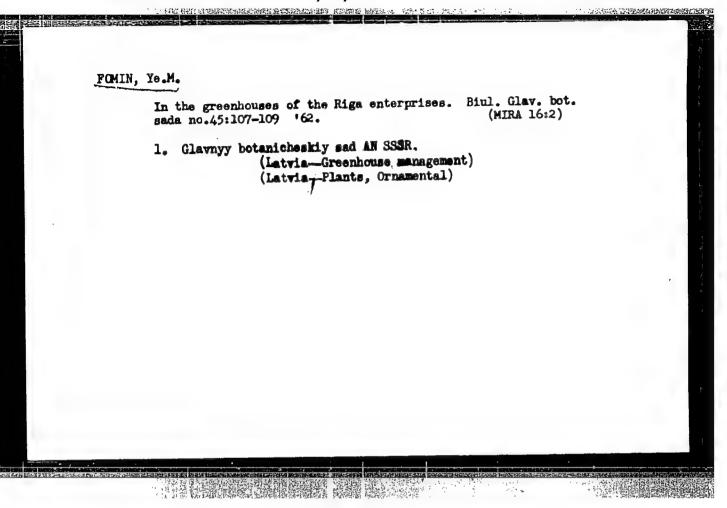








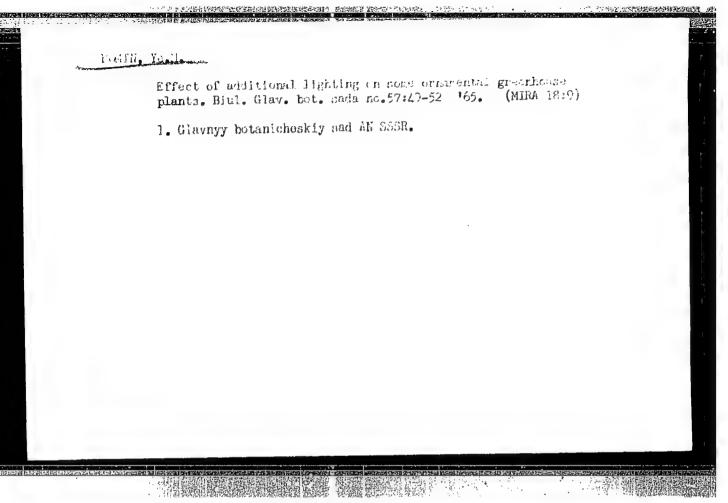


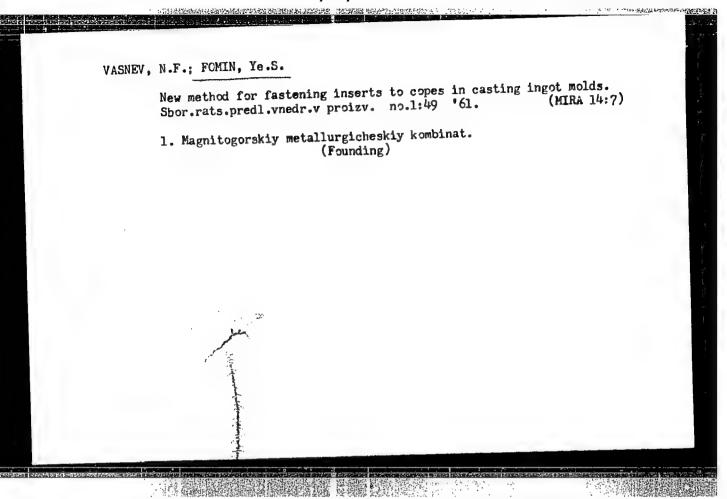


FOMIN, Ye.M.; FATEYEVA, A.A.

Use of additional ight for producing seeds of Primula obconica Hance. Biul.Glav.bot.sada no. 48:91-92 '63. (MIRA 17:5)

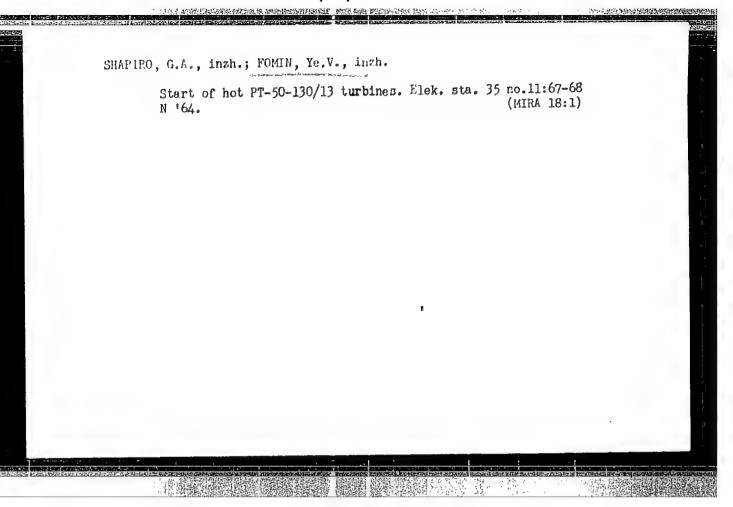
1. Glanyy botanicheskiy sad AN SSSR.





Automatic mechinery for measuring out and stoppering liquid pharmaceuticals. Med.prom. 12 no.1:51-54 Ja '58. (MIRA 11:2)

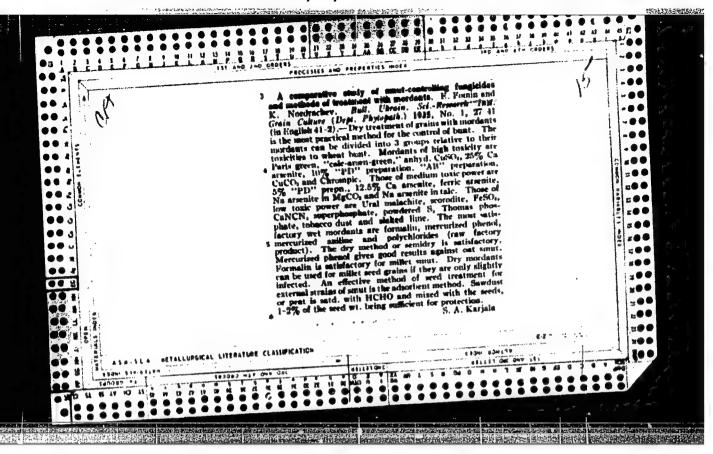
1. TSentral'noye proyektno-konstruktorskoye byuro Ministerstva zdravookhrameniye SSSR.
(BOTTLING MACHINERY)
(DRUG INDUSTRY--EQUIPMENT AND SUPPLIES)



FULIN, E. L.

"The Problem of Measures for Control of Smut of Grain Gross," <u>Biulleten' VII</u> Vsesoiuznogo S'ezda po Zashchite Rastenii v Leningrade 15-23 Moiabria 1932 Goda, no. S, 1932, pp. 22-25. 423.92 V96

30: SIMA, SI 90-53, 15 December 1953



FOMIN E. E.

FORTH E. E., and CHEVELLI, M. "Methods of Germination Tests of Seel to be Treated with Formalin," <u>Trudi Institutu</u>, Ukrains' kii Maukovo Doslidnii Institut Zernovogo Gospodarstva, Labortoriia Fitopatologii, no. 1, 1935, pp. 42-45. 59.9 Uk7 (In Ukrainian)

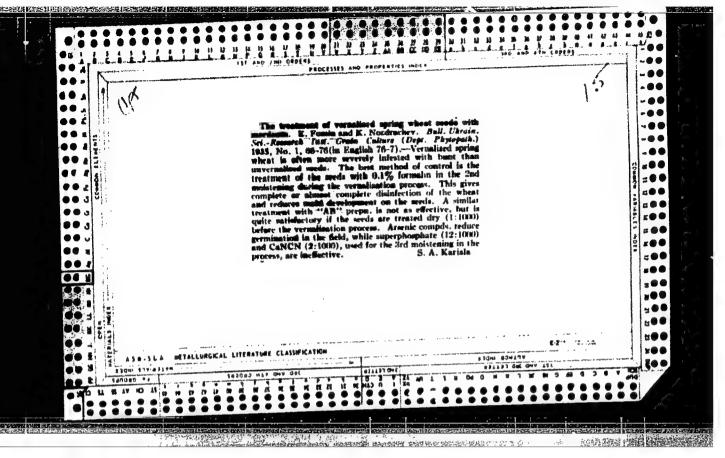
SO: SIRA, SI 90-53, 15 December 1953

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510008-9"

POMIN, D. L.

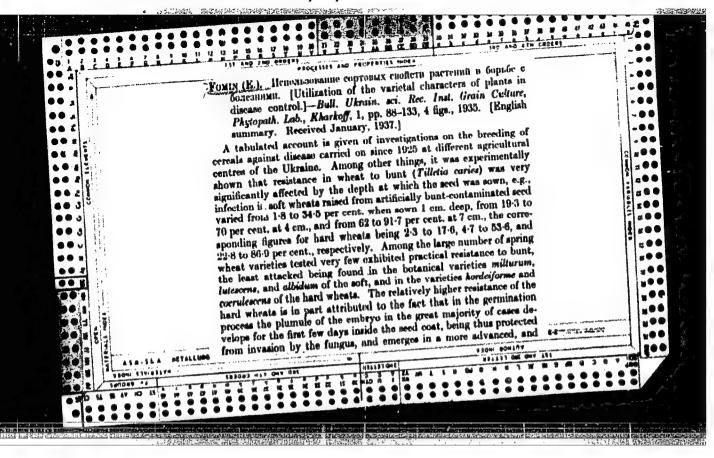
FORMS, E. E., and NOZORACHOV, K. G. "Dependence of Wheat Infostation with Bunt on Different Factors, and Differentiation of Fungicides," <u>Trudi Institutu</u>, Ukrains'kii Naukovo Doslidnii Institut Zernovogo Goscodarstva, Inboratoriia Fitopatologii, no. 1, 1935, pp. 64-64. 59.9 Uk7 (In Ukrainian)

50: SIRA, SI 90-53, 15 December 1953



"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413510008-9



FO. I., A. E., and HOZDEACHOV, K. G. "Cultural Practices in Flant Disease Control,"

Trudi Institutu, Ukrains'kii Maukovo Doslidnii Institut Zernovo o Josepharetvi,

Laboratoriia Fitopatologii, no. 1, 1935, pp. 130-150. 59.9 Uk7 (In Ukrainian)

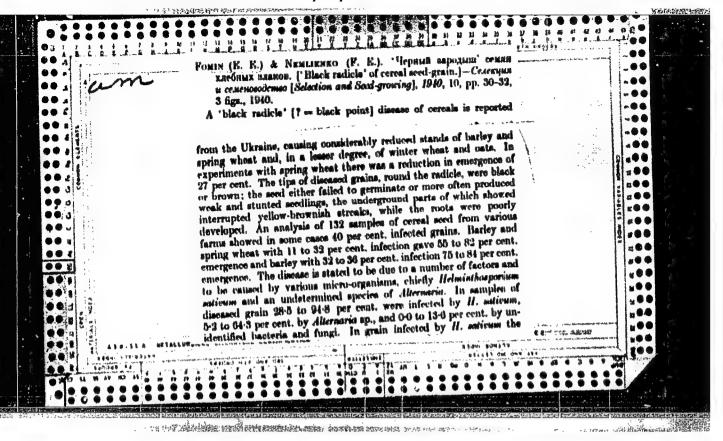
30: JRA, JI 90-53, 15 December 1953

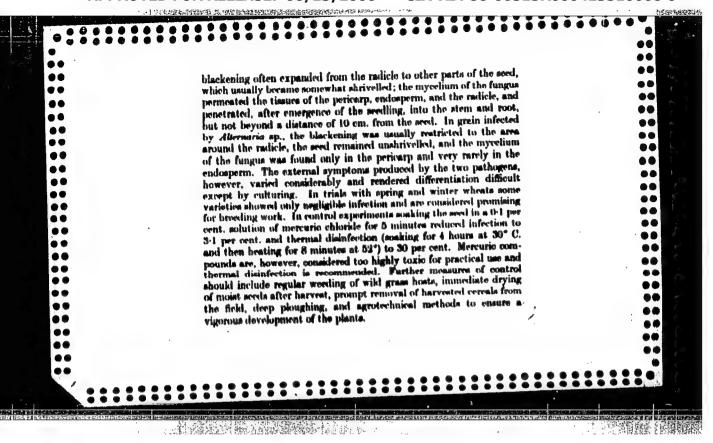
Fol III, E. L., and N. ZDRACHOV, K. G. "Causes of Low Effectiveness of the Jest Control Program on Collective and State Farms and Ways of Eliminating Them," <u>Trudi Institutu</u>, Ukrains'kii Naukovo Doshidnii Institut Zernovogo Gospodarstva, Iaboratoriia Fitopatologii, no. 1, 1935, pp. 151-156. 59.9 Uk7 (In Ukrainian)

SO: SIRA, SI 90-53, 15 December 1953

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413510008-9





FOUTH, Yo. Yo. and AY 13, 2. G.

"Diseases and lests of Vegetable, Melon, and Potato Crops in the Ukraine in 1947 and 1948," Scientific Morks of the Ukrainian Scientific Research Institute of Vegetable Growing, Vol. 2, pp 291-301, 1950.

0

USSR / Plant Diseases -- Cultivated Plants

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 73311

Author : Fomin, Ye. Ye.; Ryss, R.G.

: AS USSR Inst

: Vectors and Diseases of Vegetables, Melon Crops, Title

and Potatoes, and Methods of Their Control

Orig Pub: V. sb.: Vopr. razvitiya s.kh. Poles'ya, Kiyev,

AN USSR, 1956 (1957), 153-158

Abstract: The following diseases are especially harmful to potatoes in Poles'ye: viruses, degenerations (on sandy soils), canker, potato blight, ring rot, black stem rot, common, black and powdery scab. The most serious pests for potato are stem nematodoes, then wireworms. Of vegetable crops, cabbage

Card 1/2

USSR / Plant Diseases -- Cultivated Plants

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 73311

suffers the most especially from anbury clubroot, bacteriosis and black spot. The most harmful pests for cabbage are the cabbage moth, diamond-back moth, cabbage aphis, cabbage maggot and Bairs carbonaria. Cucumbers and pumpkins are infected with powdery mildew; watermelons with Colletotrichum (Gloeosporium) lagenarium; cucumbers in open soil with spider mite; table beets with leaf scorch, mosaic, Pegomyia hyoscyami Panz.; tomatoes with crown and black rot, black bacterial spot, megasporiosis and septoriosis. Control measures are presented for the pests and diseases indicated, especially detailed for potato diseases and stem nematodes. -- A. P. Adrianov

Card 2/2

6

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510008-9"

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RYSS, Rebekka Grigor'yevna, kand. sel'khos.nauk; FOMIN, Ye.Ye.,
otv. red.; KIREVEV, F.M., red.; KVITKA, S.P., tekhn. red.

[Potato stem nematode and measures for its control] Steblevaia nematode kartofelia i mery bor'by s nei. Kiev, Isd-vo
UASKhN, 1962. 118 p. (MIRA 16:5)

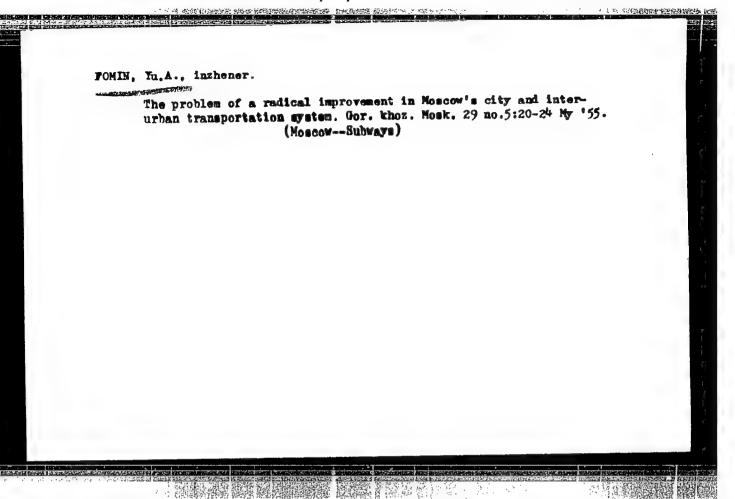
(Potatoes—Diseases and pests)
(Nematode diseases of plants)

FOMIN, Yu., VERNOV, B. M., KHRISTIANSEN, G. B., ATRASHKEVICH, V. I., DMITRIYEV, V. A., KHRENOV, B. A., KULIKOV, G. V., MECHIN, Yu. A. and SOLOV'KEVA, V. I.

"Primary Cosmic-Ray Component in Superhigh-Energy Region"

Report presented at the International Conference on Cosmic Rays and Earth Storm, 4-15 September 1961, Kyoto, Japan.

P. N. Lebdev Institute of Physics, University of Moscow, 3-a, Miusssakaya, 3, Moscow, USSR



PODOL'SKIY, L.R.; FOMIN, Yu.A.

Lift repair of electric locomotives in 2.7 days. Elek. i tepl. tiaga 2 no.10:20-23 0 '58. (MIRA 11:11)

1. Nachal'nik otdela remonta elektropodvizhnogo sostava sluzhby loko-motivnogo khozyaystva depo Nikopol', Stalinskoy dorogi (for Podol'skiy). 2. Hachal'nik elektrodepo Nikopol' Stalinskoy dorogi (for Fomin). (Electric locomotives--Maintenance and repair)

PODOL'SKIY, Leonid Romanovich; FOMIN, Yuriy Aleksandrevich; OZEMBLOVSKIY, Ch.S., inzh., red.; BOBROVA, Ye.N., tekhn.red.

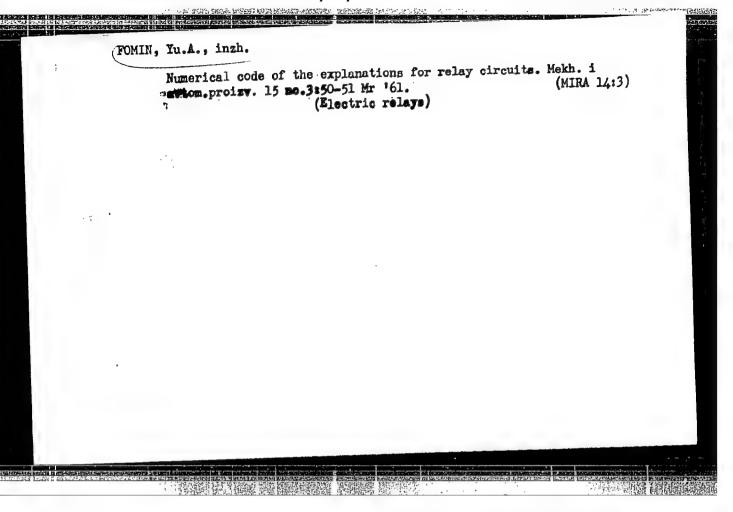
[Overhauling electric locomotives in 2.6 days by lifting the body from the wheels; experience of the work of the Electric Locomotive Collective of the Nikopol Depot on the Stalin Railway] Pod"-emochnyi remont elektrovoza za 2.6 sutok; opyt raboty kollektiva elektrovoznogo depo Nikopol! Stalinskoi dorogi. Moskva. Gos. transp.zhel-dor.izd-vo. 1959. 42 p. (MIRA 13:1) (Nikopol!--Electric locomotives--Maintenance and repair)

FOMIN, YU. A-

Computing the process of the fuel spray in diesel engines at determined intensity of the remaining pressure. p_{\bullet} 27.

TEKHNIKA, Sofiia, Bulgaria, Vol. 8, no. 3, 1959

10, Oct. Monthly List of East European Accessions (EEAI) LC, Vol. b, No. 1959, Uncl.



PODOL'SKIY, Loonid Romanovich; CHOLOVSKIY, Nikolay Ivanovich; FOMIN, Yuriy Aleksandrovich; BYCHKOVSKIY, A.V., kand. tekhn. nauk, red.; KHITROVA, N.A., tekhn. red.

[Electric meters for registering the consumption of electric power by electrified rolling stock|Schetchiki elektricheskoi energii elektropodvizhnogo sostava. Moskva, Transzheldorizdat, 1962. 115 p. (MRA 15:10) (Electric railroads—Current supply) (Electric meters)

C. h.; KHRISTIANSEN, G. B.; ABROSIMOV, A. M.; KHRENOV, DMITRIYEV, V. A. VA, V. I.; SOLOVYEV, K.I.: BELYAYEVA, M.F.; NECHIN, Yu. A.; VEDENEYEV, O.N.;

Surmary of the new data on EAS structure obtained with the aid of the complex equipment of Moscow State University.

Report submitted foe the 8th Intl. Conf. on Cosmic Rays (IUPAP) Jaipur, India, 2-11. Dec 1963

THANSEN, G. B.; ABROSIMOV, A. M.; KHRENOV, B. A.; ATRASHKEVICH, V. B.; LIKOV, G. V.; SOLOVIYEVA, V.I.; FOMIN, Yu. A.

The cosmic ray primary radiation of ultra high energy.

Report submitted for the 8th Intl. Conf. on Cosmic Rays (IUPAP), Jaipur, India, 2-14 Dec 1963

S/056/63/044/002/041/065 B108/B186

AUTHORS:

Fomin, Yu. A., Khristiansen, G. B.

TITLE:

Size distribution of extensive atmospheric showers

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 2, 1963, 666-675

·斯特拉格里特斯特拉斯克斯斯斯特

TEXT: The rapid change in the power exponent of the spectrum with respect to the number of particles of extensive showers, observed recently for $_{
m N}\sim$ 10 5 - 10 6 at sea level (G.B. Kulikov, G.B. Khristiansen. Nuovo Cim., Suppl., 8, 1958; S. Fukui et al. Progr. Theor. Phys., Suppl., 16, 1, 1960; M.R. Allan et al. Preprint, 1962) is explained here. For this purpose it is sufficient to assume that the distribution of magnetic clouds in the Galaxy with respect to the parameter IN is such that the diffusion coefficient for ultrahigh energy cosmic rays changes from D = const to extstyle extfield strength in it. $\alpha > 0.5$ when the energy changes by one order of magnitude. The most probable explanation is the one which attributes the rapid change in the power exponent of the shower spectrum to corresponding

Card 1/2

Size distribution of extensive ...

S/056/63/044/002/041/065 B108/B186

changes in the exponent of the primary energy spectrum. An analysis of experimental data shows that the primary radiation does not consist of heavy nuclei only. There are 4 figures and 5 tables.

ASSOCIATION:

Institut yadernoy fiziki Moskovskogo gosudarstvennogo

universiteta (Institute of Nuclear Physics of Moscow State

University)

SUBMITTED:

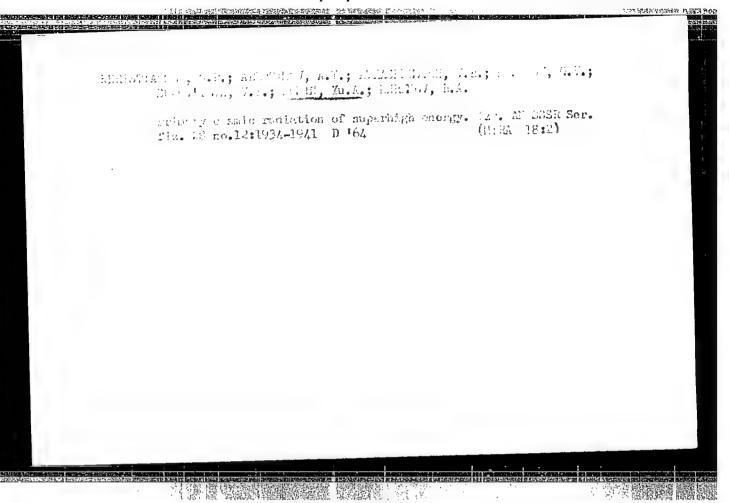
August 13, 1962

Card 2/2

SYROVATSKIY, S.I.; FOMIN, Yu.A.; KHRISTIANSEN, G.B.

Energy spectrum of primary cosmic radiation and its composition in the region of ultrahigh energies. Zhur. eksp. i teor. fiz. 45 no.5:1595-1602 N '63. (MIRA 17:1)

1. Fizicheskiy institut imeni Lebedeva AN SSSR i Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.



VERMOV, S.M.; KHRISTIAMSEW, G.B.; ABROSIMOV, A.T.; ATRASHKEVICH, V.B.;
BELYAYEVA, I.F.; VEDEMEYEV, O.V.; DHITRIYEV, V.A.; KULIKOV, G.V.;
MECHIN, Yu,A.; SOLOV'YEVA, V.I.; SOLOV'YEV, K.I.; FOLD:, Yu.A.;
KHREMOV, B.A.

Description of a modernized complex setup for studying extensive air showers. Izv. AN SSSR Ser. fiz. 28 no.12:2087-2092 D '64 (NIRA 18:2)

ACCESSION NR: AP4042579 .

\$/0056/64/046/006/2141/2150

AUTHORS: Fomin, Yu. A.; Khristiansen, G. B.

TITLE: Energy spectrum and composition of cosmic rays of galactic and metagalactic origin

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2141-2150

TOPIC TAGS: cosmic ray, cosmic ray composition, cosmic radiation energy, cosmic ray origin, galactic cosmic ray, metagalactics

ABSTRACT: To ascertain the contribution of primary cosmic radiation from galactic and metagalactic sources, the authors calculate the energy spectrum and composition of cosmic rays of both galactic and metagalactic origin, starting from the diffusion model of cosmic-ray propagation, and using more general assumptions concerning the energy variation of the diffusion coefficient than made heretofore. In addition, a more detailed comparison is made of the results of the cal-

Card. 1/2

ACCESSION NR: AP4042579

culation with the experimental particle-number spectrum of extensive air showers and with the muon number distribution in a shower having a specified number of particles. The comparison results imply that the metagalactic cosmic rays play a major role in the energy region distributions is good, and the smaller slope of the energy spectrum of the metagalactic cosmic rays does not contradict the existing experimental data in the region E $< 10^{17}$ - 10^{18} eV. "In conclusion the cussion of the problem and to L. G. Dedenko for communicating the and 4 tables." Orig. art. has: 7 figures, 3 formulas,

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Nuclear Physics Institute, Moscow State University)

SUBMITTED: 19Dec63

DATE ACQ:

ENCL: 00

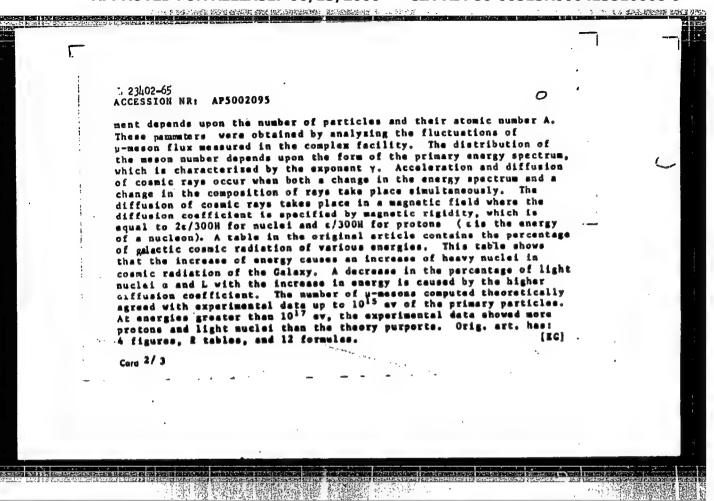
SUB CODE: AA, NP

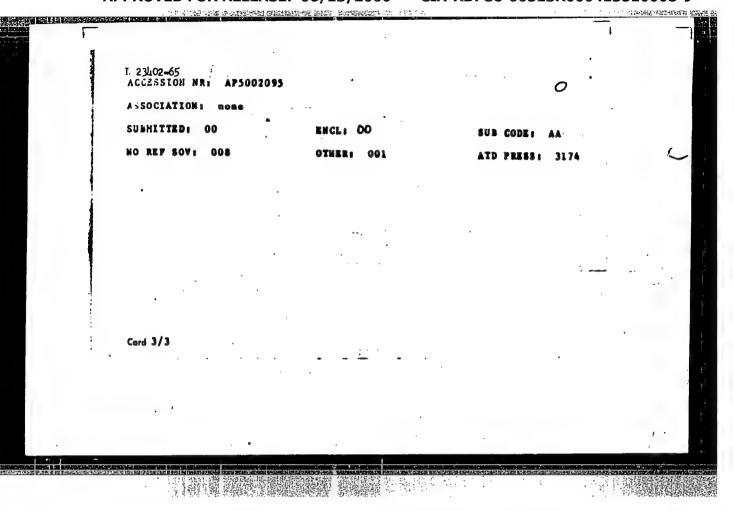
NR REF SOV: 008

OTHER: 004

Card 2/2

. 23402-65 EWT(1)/EWG(*)/FCC/EEC-4/EEC(t)/EWA(h) Po-4/Pe-5/Pq-4/Pae-2/Peb/Pi-4 s/0048/64/028/012/1934/1941 /? ACCESSION NRI APSO02095 OWARS AUTHOR: Khristiansen, G. B.; Abrosimov, A. T.; Atrashkevich, V. B.; Kulikov, G. V.; Solov yeva, V. I.; Fomin, Yu. A.; Khrenov, B. A. TITLE: Primary cosmic radiation of superhigh energy B SOURIET AN SSSR. Investiys. Seriys finicheskeys, v. 28, no. 12, 1964, , 434-1941 TOPIC TAGS: atmospheric shower, shower spectrum, primary energy spectrum, commic ray, atomic number, µ meson, cosmic ray diffusion, magnetic field, magnetic rigidity, proton, nucleus, diffusion coefficient ABSTRACT: The spectrum investigation of large atmospheric showers may be made by means of the number of particles which is possible to study using a complex large-scale facility. The spectrum of large atmospheric showers near see level changes its form sharply with the change in the total number N of particles. The transition of cosmic radiation from the shower spectrum to the primary energy spectrum is performed using a model of the development of stmospheric showers. The develop-





FORTH, Yu.A; KHRICTIANSEN, G.B.

Energy pectrum and composition of commic rays of galactic and metagalactic orgin. Zhur.cksp.i teor.flz. 46 no.6:2141-2150 Jn 164.

1. Institut yadernoy fiziki Meskovskogo gasudarstvennogo universiteta.

AKSENOV, Vasiliy Ivanovich; DANILOV, Yuriy Vladimirovich; YEGOROV, Viktor Konstantinovich; FOMIN, Yuriy Alekseyevich; VASIL'YEVA,I., red. izd-va; SMIRNOVA, G.V., tekhn. red.

[The K-125 and K-175 motorcycles and their modifications; construction, operation and the catalog of interchangeable parts] Mototsikly K-125, K-175 i ikh modifikatsii; ustroistvo, ekspluatatsiia i katalog vzaimozameniaemykh detalei. Moskva, Mashgiz, 1962. 198 p.

(MIRA 15:7)

(Motorcycles)

FOMIN, YUA.

5(2)

PHASE I BOOK EXPLOITATION

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Akademiya nauk SSSR. Kol'skiy filial

Sbornik trudov po khimicheskoy tekhnologii mineral nogo syr'ya Kol'skogo poluostrova, vyp. 1 (Collection of Works on Chemical Technology of Minerals of the Kola Peninsula, Nr 1) Moscow, Izd-vo AN SSSR, 1959. 221 p. 1,200 copies printed. Errata slip inserted.

Resp. Ed.: B.N. Melent'yev, Candidate of Geological and Mineralogical Sciences; Ed. of Publishing House: B.M. Markus; Tech. Ed.: E. Yu. Bleykh.

PURPOSE: The book is intended for scientists and technicians concerned with the extraction of tantalum, niobium, and rare metals.

COVERAGE: The book deals with a study of a complex treatment of the perovskite and sphene concentrates. The first three articles cover methods of extraction of titanium dioxide from the perovskite concentrate with side recovery of niobium, tantalum, and rare earths. The treatment of sphene concentrate is discussed in two articles. The separation of titanium, niobium, and tantalum is described in a separate article. The problem of selecting an efficient

Card 1/3

"APPROVED FOR RELEASE: 06/13/2000

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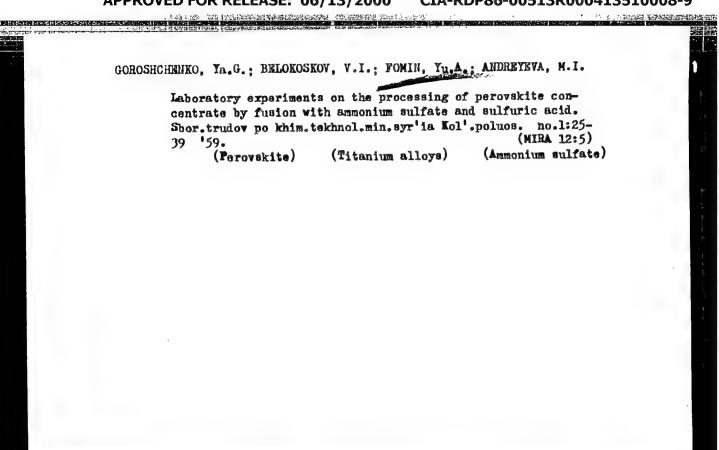
Collection of Works on Chemical (Cont.) SOV/2015	••
technological procedure is discussed in the last article. No person mentioned. There are 31 references: 25 Soviet, 3 English, and 3 Ge	malities are rman.
TABLE OF CONTENTS:	
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Goroshchenko, Ya.G., V.I. Beloksekov, and Yu. A. Fomin. Large Scale Laboratory Experiments on Fusing Perovskite Concentrate With Ammonium Sulfate and Sulfuric Acid	40
Goroshchenko, Ya. G., D.L. Motov, and G.V. Trofimov. Laboratory Experiments on the Treatment of Sphene Concentrate by Fusion With Ammonium Sulfate and Sulfuric Acid	L- 67
Card 2/3	

Collection of Works on Chemical (Cont.) SOV/20	015
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Motor, D.L. Study of the System $T10_2$ - H_2S0_4 - $(NH_4)_2S0_4$ - H_2C) py
Dissolution in the Aqueous Solution Region	. 1
Goroshchenko, Ya.G., and M.I. Andreyeva. Extraction of Niobium as Tantalum From Intermediate Products Obtained During the Processis of Loparite, Perovskite, and Sphene	nd ng
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Problem of Selecting a Scheme for Industrial Process for the Proof Titanium Pigments From Perovskite Concentrate With Side Recovery	luction ery of

GOROSHCHENKO, Ya.G.; BELOKOSIOV, V.I.; FOMIN, Yu.A.; ANDREYEVA, M.I.

Laboratory experiments on the processing of perovskite concentrate by the titanyl sulfate method. Shor.trudov po khim.tekhnol.
min.syr'ia Kol'.poluos. no.1:5-24 '59. (MIRA 12:5)

(Ferovskite) (Titanyl sulfates)



GOROSHCHENKO, Ya.G.; BELOKOSKOV, V.I.; FOMIN, Yu.A.

Extended laboratory experiments on the fusion of perovskite concentrate with ammonium sulfate and sulfuric acid. Shor. trudov po khim.tekhnol.min.syr'ia Kol'.poluos. no.1:40-66
'59.

(Perovskite) (Ammonium sulfate) (Sulfuric acid)

GOROSHCHENKO, Ya.G.; BRLOKOSKOV, V.I.; FOMIN, Yu.A.; MOTOV, D.L.

Selecting the industrial layout for the production of titanium pigments from perovskite concentrate with a side recovery of rare metals. Shor.trudov po khim.tekhnol.min.syr'ia Kol'. poluos. no.1:148-221 '59. (MIRA 12:5)

(Titanium) (Rare earth metals)

7

33095 5/638/61/001/000/018/056 B104/B138

Study of photodisintegration ...

protons from ppn reactions was lower than that from pp reactions. The protons from fpn reactions was lower than that from fp reactions. The effective cross sections were calculated; their shape indicates the importance of transitions in the residual nuclei. The proton angular distribution from fpn reactions is nearly isotropic for low proton energies. bution from fpn reactions is nearly isotropic for low proton energies. For high proton energies (>20 MeV), it is very similar to that in deutern photodisintegration. The proton angular distribution from fp reactions is photodisintegration. The protos angular allow energies. In the expression approximately isotropic for N_1^{14} and O_8^{16} at low energies. In the expression anproximately isotropic for N₇ and U_8 at low energies. In this expression of $d\sigma/d\Omega\sim A(1+B/A\sin^2\theta+C/A\sin^2\theta\cos\theta+D/A\cos\theta)$, the effect of the last three terms in parentheses increases for higher energies. The isotropic part terms in parentheses increases for higher energies. The isotropic part of the angular distribution is greater for N₁₀ than for the two other of the angular distribution is greater for N₁₀ than for the two other isotropes. An abnormally high yield of the fph reaction was found for N₇; it is attributed to interaction of a photon with a pair of "walency" nucleons in the outer shell, which are in the 1p_{1/2} state with parallel spins. During photon absorption, the electric dipole absorption plays an essential part in N and O nuclei. The logarithmic moments of the photon-absorption cross sections are in good agreement with results obtained on the basis of an independent partials model. You Knokhlow tained on the basis of an independent-particle model. Yu. K. Khokhlov Card 2/4,

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Study of photodimintogration ... S/658/61/001/000/010/056
B104/8130

(DAM, SSSR, 1954, 97, 239; ZhETF, 1957, 32, 124) and A. B. Migdal
(ZhETF, 1945, 15, 61) are mentioned. There are 9 figures, 7 tablos, and 22 referencess 8 Soviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: Liveagy D. L. Canad. Journ. Phys., 35, 9, 1957; Rhodes, Stephens W. E. Phys. Rev., 110, 1415, 1956; Elliot, Flowers B. H. Proc. Ray. Soc., A. 242, 57, 1957; Svantesson W. L. Nucl. Phys., 3, 273, 1957.

ASSOCIATION: Fizichoskiy institut im. P. N. Lobedeva AN SSSR (Physics Institute imeni P. N. Lobedev AS USSR)

ATRASHKEVICH, V.B.; FOMIN, Yu.A.; KHRISTIANSEN, G.B.

Calculation of fluctuations in the development of extensive air showers using the Monte-Carlo method. Izv. AN SSSR. Ser. fiz. 29 no.9:1696-1701 S '65.

(MIRA 18:9)

VERNOV, S.N.; KHRISTIANSEN, G.B.; ABROSIMOV, A.T.; ATRASHKEVICH, V.B., BELYAYEVA, I.F.; VEDENEYEV. O.V.; KULIKOV, G.V.; FOMIN, Yu.A.; NECHIN, Yu.A.; SOLOV YEVA, V.I.; KHRENOV, B.A.

Fluctuations in the development of extensive air showers with a fixed total number of charged particles and a fixed total number of muons. Izv. AN SSSR. Ser. fiz. 29 no.9:1676-1681 S 165. (MIRA 18:9)

L 4480-66 - EWT(1)/EWT(m)/FGC/T/EWA(h) - IJP(c) - GW

ACC NR: AP5024637 SOURCE CODE: UR/0048/65/029/009/1696/1701

AUTHOR: Atrashkevich, V.B.; Fomin, Yu. A.; Khristiansen, G.B.

ORG: none

TITLE: Monte Carlo calculations on the fluctuations in the development of extensive air showers / Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31

August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1696-1701

TOPIC TAGS: primary cosmic ray, secondary cosmic ray, extensive air shower, nucleon interaction, inelastic interaction, pion

ABSTRACT: The authors have employed Monte Carlo methods to calculate the fluctuations

ABSTRACT: The authors have employed Monte Carlo methods to calculate the fluctuations in extensive air showers, initiated by protons with fixed energy, of the total number of electrons, the total number of high energy muons, the age parameter, and the total energy flux in the electron-photon and nuclear-active components. Four different models were employed to describe the elementary high energy nucleon interaction; these models were selected to give an average inelasticity of 0.5 and differed in regard to the frequency and nature of very high energy secondaries. Very high energy pions were assumed to have an interaction free path in air of 80 g/cm², to interact with an inelasticity of unity and a multiplicity proportional to the fourth root of the energy, and to produce secondaries of which all have the same energy. Monte Carlo methods were

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employed to determine the inclasticities and locations of all the interactions of the primary proton and the locations of the interactions of the high energy secondary pions; the further development of the shower was calculated with conventional cascade equations in which the effect of pion decay was included but which are not further specified. Calculations were performed for showers initiated by 1015, 1016, and 1017 eV protons. The average values and dispersions of the number of electrons, the number of high energy muons, the age parameter, and the energy flux, and the correlation coefficient of the age parameter with the number of electrons are tabulated and some of the distributions are presented graphically. These averages, dispersions, and correlation coefficients did not vary greatly with the model selected to represent the elementary nucleon interaction event. Formulas are given for calculating the corresponding quantities for showers initiated by nuclei on the assumption that the shower initiated by a nucleus of mass number A and energy E is the sum of A showers, each initiated by a nucleon of energy A/E. The transformations required for comparing the present calculations with the experimental results of S.N. Vernov et al. (Izv. AN SSSR Ser fiz., 29, 1676, 1965 /see Abstract AP5024632/) are discussed but the comparison is not made. Orig. art. has: 5 formulas, 2 figures, and 3 tables.

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ORIG REF: 006/ OTH REF: 000

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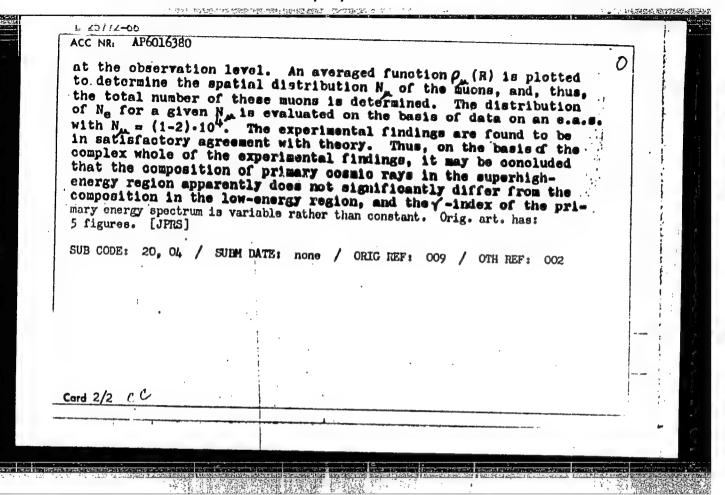
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VERNOV, S.N.; KHRISTIANSEN, G.B.; ABROCIMOV, A.T.; ABRACHREZICH, V.B.; BELYAYEVA, I.F.; KULIKOV, G.V.; SOLOV'YLVA, V.I.; FOMIN, YO.A.; KHRENOV, B.A.

Ultrahigh-energy primary cosmic radiation according to data on extensive air showers. Izv. AN SSSR.Ser.fiz. 29 no.10:1876-1880 0 465. (MIRA 18:10)

1. Nauchno-issledovatel skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta Im. M.V. Lomenesova.

L 25772-66 EWT(m)/FCC/T IJP(c) ACC NR. AP6016380 SOURCE CODE: UR/0048/65/029/010/1876/1880	
AUTHOR: Vernov, S. N.; Khristiansen, G. B.; Abrosimov, A. T.; Atrashkevich, V. B.; Bolyayeva, I. F.; Kulikov, G. V.; Solov'yeve, V. I.; Fomin, Yu. A.; Khrenov, B. A.	
ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M. V. Lomonosov (Nauchno-issledovatel skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta)	
TITLE: Primary superhigh-energy cosmic radiation according to data on extensive atmospheric showers	
SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1876-1880	
TOPIC TAGS: cosmic radiation, muon ABSTRACT: Of interest in the investigation of the primary energy spectrum of cosmic rays and their composition is the knowledge of the spectrum of extensive atmospheric chowers (e.a.s.) with respect to the total number N _A of high energy muons (E _A > 10 ¹⁰ eV) and	
the distribution of e.a.s. over the total number of the particles Ne for a given N In this connection the authors analyze the primary energy spectrum of cosmic rays on the basis of experimental data obtained with a special device for investigating e.a.s. recorded with a probability of W > 0.95. This device makes it possible to determine the total number of charged particles in an e.a.s.	
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4528-66 EWT(m)/FCC/T IJP(c)		UR/0048/65/029/009/	1676/1681	
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THOR: Vernov	8.W.; Khristianson	(ulikov, G.V.; Fomin. Y	u. A.; Nechin, Yu.	<u>^-i</u>	
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olov yeva V.I.	Khrenov, B.A.			36	
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distributic part ABSTRACT: The s	uthors have emplo	. Vernov et al., Izv. Al	otal number N of ch	arged par-	
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versity, descrit 1964), to invest ticles, total n ers were select	tigate the simultaneer M of muons, ed for which the	neous distribution of t and age parameter 8 in emith angle of the axio recorded by the muon (extensive air shows was less than 30° detector and the per	rs. Show- M was de- rpendicular	
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known age, calculated by Monte C some 300 showers with total numb Histograms are given showing the M, with respect to M with fixed S with fixed M, and scatter plot sus S with fixed N. The correla	mated to be 0.02 by processing "artific Carlo methods. The data presented were pers of charged particles ranging from a distribution of showers with respect N, with respect to 8 with fixed N, and its are given for N versus 8 with fixed ation coefficient of 8 with N for fixed ation coefficient of 8 with N for fixed figures, and 1 table.	derived from 105 to 4 x 105. to N with fixed with respect to M and for M ver- N ranged be-
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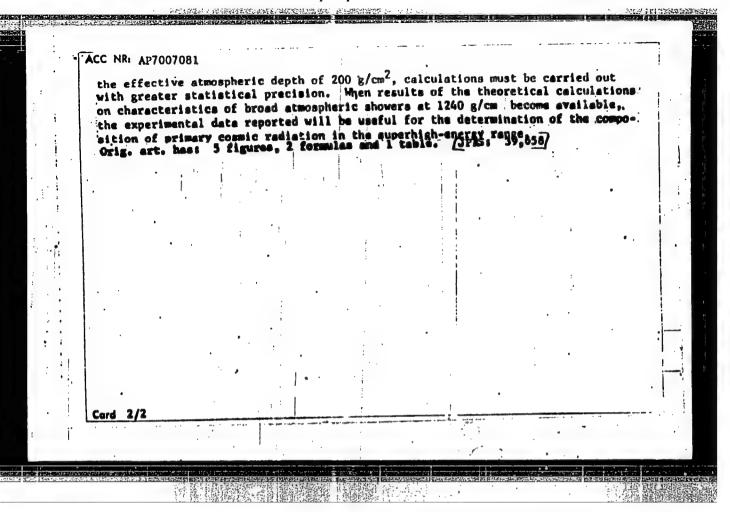
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! ACC NR: A17007081

SOURCE CODE: UR/0048/66/030/010/1685/1689

AUTHOR: Vernov, S. N.; Khristiansen, G. B.; Abrosimov, A. T.; Atrashkevich, V. B.; Belyayeva, I. F.; Vedeneyev, O. V.; Kulikov, G. B.; Nechin, Yu. A.; Solov'yeva, V. I.: Fomin, Yu. A.; Khrenov, B. A. ORG: none TITLE: Phenomenological characteristics of broad atmospheric showers with a fixed number of Acmesons and electrons /Paper presented at the All-Union Conference on Cosmic Radiation Physics, Noscow, 15-20 Nov 1965/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966, 1685-1689 TOPIC TAGS: mu meson, cosmic radiation SUB CODE: ABSTRACT: In an earlier work by Vernov et al (Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 29, 1676, 1965), results obtained in a study at an instal-lation of Moscow State University on broad atmospheric showers with zenith angles of 0-300 were reported. These results included the distribution of showers with a fixed number of electrons Ne with respect to the number of high-energy mesons NA. and the age parameter S, distribution of showers with a fixed NA. with respect to Ne and S, and the coefficients of the correlation between S and the fluxes of electrons and A-mesons. In the work reported in this instance, the same relations were determined for broad atmospheric showers with zenith angles of 30-430. The fluctuations of Nu, S, and Ne, observed for an effective atmoapheric depth of 1240 g/cm2, were the same as those for vertical showers established in the earlier work. To determine the differences due to an increase in .. Cord 1/2

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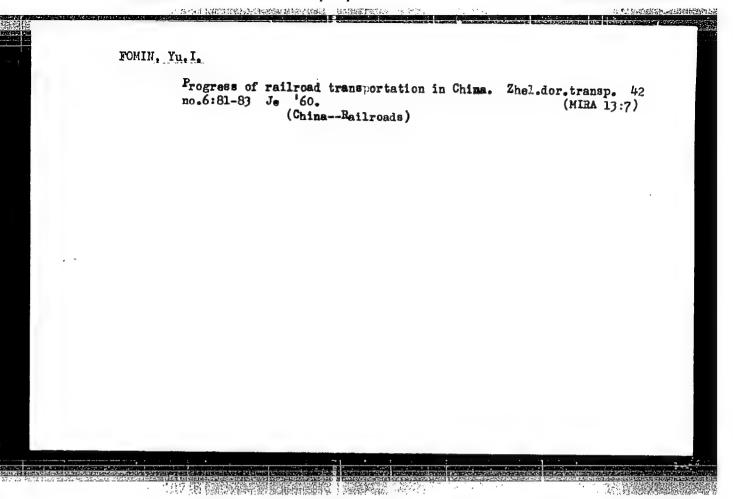
ALESHKOV, M.N., st. nauchn. sotr., kand. tekhn. nauk, inzh.polkovnik; ZHUKOV, I.I., prof., doktor tekhn. nauk,
general-mayor; KATKHANOV, M.N., doktor tekhn. nauk,
dots., inzh.-polkovnik; VYSKUBOV, B.R., inzh.-polkovnik;
KUKUSHKIN, D.D., kand. tekhn. nauk, polkovnik; MARKOV
O.P., dots., kand. tekhn. nauk, inzh.-podpolkovnik;
SAVIN, N.V., inzh.-polkovnik; SMIRNOV, A.D., inzh.podpolkovnik; FOMIN, Yu.G., kand. tekhn. nauk, inzh.polkovnik; KISELEV, S.P., inzh.-polkovnik, red.

[Physical principles of rocket weapons] Fizicheskie osnovy raketnogo oruzhiia. Moskva, Voenizdat, 1965. 463 p.
(MIRA 18:7)

	L 3835-66 ARG/ENT(d)/FBD/FBG/ENT(m)/EMP(w)/EPF/LMP(h)/FCS(k)/EMA(h)/ETC(m) WN/EM/LMS025577 BOOK EXPLOITATION	(c)/Fà/EnP(c)/≥nP(∀)/T- nE ur/ 355•9 M49	100	
	Aleshkov, M. W. (Candidate of Technical Sciences, B. R. (Engineer-Colonel); Zhukov, I. J. (Profesciences, General Major of the I.T.S.); Katkhe Sciences, Docent Engineer-Colonel); Kukushkin, Sciences, Colonel); Markov, O. P. (Docent, Can Engineer-Lieutenant Colonel); Savin, W. V.C. (Engineer-Colonel); Famila, IV. G. (Candidate Colonel) Physical principles of rocket weapons, (Fixiches Moscow, Voyenisdat M-va eber. SSSR, 1965. 463 copies printed. TOPIC TAGS: rocket, rocket flight, weapon, prej rocket propellent, combustion chember, engine missile ground equipment, rocket engine test,	anov, N. M. (Doctor of , D. D. (Candidate of 1 ndidate of Technical Sciences, of Technical Sciences, kiye emovy raketnogo of p. illus., biblio. I	Technical fechnical diences, for, A. D. 4455 Engineer- preships) 12,000	
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:	AM5025577 and control and guidance systems of various types. It also describes the working principle of rockets of various types and their basic equipment, and the designs of ground equipment and the tests of rocket complexes. It also contains a classification of rocket equipment. The book is intended for
!	officers connected with the manufacture of rocket equipment, and for students of military educational institutions. The contents of the book is based on materials of overt Soviet and foreign publications. TABLE OF CONTENTS (abridged):
	Introduction — 3 Ch. I. Problems rolved by rocket weapons, requirements set for them, and classification of rocket magnition — 5 Ch. II. General information on jet engines — 24 Ch. III. Rocket fuels — 47 Ch. IV. Combustion chembers — 75 Ch. V. Rocket engine feed systems — 135 Ch. VI. Some problems in the theory of rocket flight — 164 Ch. VII. Rocket central systems — 240 Ch. VIII. Design posuliarities in the structure of various purpose
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) ·	Ch. IX. Ground equipment of various purpose resket emplexes — 365 Ch. I. Bocket and resket complex tests — 407 Ch. II. Bocket combet units — 427 7
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ACC NR: AP600	05532 (A)	SOURCE CODE: UR/0089/66/020/001/0053/00	054

AUTHOR: Fokin, A. V.; Kuzicheva, V. S.; Fomin, Yu. K. 43

ORG: none

TITLE: Possibilities of "oil" flotation for reprocessing liquid radioactive wastes

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 53-54

TOPIC TAGS: flotation, radioactive waste disposal, radioisotope, nuclear engineering, solvent extraction

ABSTRACT: "0il" flotation may be used at ordinary temperatures with comparatively simple equipment for extracting the solid phase from waste radioactive pulp and concentrating it together with trapped radioisotopes in a layer of organic matter which is immiscible with water. The suspended particles are treated with various water-repellent surface-active sorbents, (e. g. salts of fatty acids). Up to 90-95% of the radioactive isotopes may be removed from the water in a single stage. It is recommended that nonflammable and low-boiling solvents of the carbon tetrachloride type should be used in quantities of 30-50 ml per gram of solid residue to

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L 16471-66 ACC NR: AP6005532

be extracted. In some cases organic monomers may be used for the "oil", and the layer of extracted material may be directly converted to a solid plastic by bulk or suspension polymerization. It was found that preparations based on polystyrene and various polyester acids may be used for burial of the radioactive isotopes.

SUB CODE: 18/ SUBM DATE: 150ct65/ ORIG REF: 000/ OTH REF: 000

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RAKCHEYEV, A.D.; FOMIN, Yu.M.; BURIKOV, Ye.V.; GUBANOV, A.M.

THE PROPERTY OF STREET STREET, STREET,

New data on the age of pyrite mineralization of ore deposits in central Urals. Sov.geol. 1 no.7:148-150 J1 158. (MIRA 11:11)

1. Moskovskiy gosudarstvennyy universitet im M.V. Lomonosova. (Ural Mountains--Pyrites)

FOMIN, Yu.M.

Find of archaeocyathidlike organisms in Middle Devonian sediments on the eastern slope of the Southern Urals.
Paleont. zhur. no.2:17-19 '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet.
(Ural Mountains...Archaeocyathidae)

TAL'SKAYA, 01'ga Semenovna; MEVEROV, L.P., red.; FOMIN, Yu.S., otv.za vypusk

[Streets in Sverdlovsk are named for them] Ikh imenami nasvany ulitsy Sverdlovska. Sverdlovsk, Sverdlovskii obl.kraevedcheskii musei, 1959. 71 p. (NIRA 14:2) (Sverdlovsk--Streets)

MYALO, I.I., starshiy nauchnyy sotrudnik; FCMIN, Yu.V., starshiy veterinarnyy vrach

The ANZh-2 truck-mounted liquid manure spreader for the control of bloodsucking insects. Veterineriia 39 no.6276-77 Je 162 (MIRA 1821)

1. Dal'nevostochnyy nauchno-issledovatel'skiy veterinarnyy institut (for Myalo). 2. Volkovskiy myaso-molochnyy sovkhoz Amurskoy oblasti (for Fomin).

FOMEN, Ta.7., nauchnyy sotradnik

Using gamma globulin for the prorhylaxis of infectious atrophic rhinitis in swine. Veterinariia 40 no.8:41 Ag '63.

(MISA 17:10)

1. Dal'nevostochnyy nauchno-issledovatel'skiy veterinarnyy institut.

BAZYLEV, P.M., doktor veter. nauk; FOMIN, Yu.V., aspirant

Diagnosis of Aujeszky's disease by the method of diffuse precipitation reaction in agar gel. Veterinariia 42 no.7:16-19 J1 '65.

(MIRA 18:9)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov.

L 24698-66 EVT(1)/T ACC NR: AP6015819 UR/0346/65/000/007/0016/0019 SOURCE CODE: Bazylev, P. M. (Doctor of veterinary sciences); Fomin, Yu. V. (Aspirant) ORG: State Scientific Control Institute of Veterinary Preparations (Cosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov) TITLE: Diagnosis of Aujeszky's disease by the method of diffusion precipitation reaction in agar gel SOURCE: Veterinariya, no. 7, 1965, 16-19 TOPIC TAGS: serum, antigen, commercial animal, animal disease, virus disease ABSTRACT: The authors present the results of an experimental investigation of 3 the diffusion precipitation test (DPT) on an agar plate as a means of laboratory diagnosis of Aujeszky's disease in livestock. The organization of this test requires the following components: agar plates (with 1.5% agar), precipitating serum, virus-retaining antigens (extracts from parenchymatous organs, prepared from pancreatic tissue, lymphatic nodes, spleen, lung, and brain of sick piglets, hogs, sheep, and rabbits). The precipitating serum used was liquid 10% anti-Aujesky's disease globulin as well as dry globulin obtained from the 10% globulin by the lyophilic drying method. The agar (25cc) is dissolved in Petrl dishes, whereupon droplets of dissolved agar are poured onto the bottom of the holes punched in agar plates, with portions of antigens then poured into these holes (and with the precipitating serum poured into the central hole). This is a fairly simple yet effective test which does not require intricate laboratory equipment. Furthermore, it was established that Card 1/2 UDC: 619:616.988.23-077.34

位所指用于2015年代的基础设施的基础。 医阿拉克氏炎

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ACC NR: AP6015819

extracts of lymph nodes or of the pancreas in a chloroform-treated saline solution are the most effective antigens for the DPT. These preliminary exsolution are the most effective antigens for the DPT. These preliminary exsolution are the most effective antigens for the DPT. These preliminary exsolution are the most effective antigens agar gel is a specific and promising periments indicate that the DPT employing agar gel is a specific and promising important in the second property of the lack of nonspecific reactions in the presence of other hog diseases of viral and bacterial etiology (swine fever, presumenta, erysipelas, septicemia, paratyphoid) is needed. Orig. art. has:

2 figures. [JPRS]

SUB CODE: 06, 02 / SUEM DATE: none / ORIG NEF: OO4 / OTH NEF: OO3

Card 2/2 FW

SOURCE CODE: UR/0413/66/000/521/0076/0076 ACC NR: AP7001400 INVENTOR: Smirnov, V. V.; Fomin, Yu. V.; Sud'in, A. P.; Merzenev, M. D. ORG: none TITLE: Arc welding attachment. Class 21, No. 187905 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 76 TOPIC TAGS: arc welding, arc length, automatic arc length control, welding equipment ABSTRACT: This Author Certificate introduces an attachment for arc welding which includes a welding head and a copying device. To ensure a stable arc length and to improve the welding quality, the welding head carries an additional argon nozzle and is connected to a membrane actuator. The argon jet from the additional nozzle Fig. 1. Welding attachment 1 - Membrane actustor; 2 - welding torch; 3 - nozzle; 4 - argon jet. UDC: 621.791.753.39.03 Card 1/2

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